

# DEFENCE PROCUREMENT INTERNATIONAL



THE UAE'S C4ISR TRANSFORMATION

NATO SMART DEFENCE  
GAME CHANGER OR BUSTED FLUSH?



**LAND 400**  
CLOSING THE COMBAT CAPABILITY GAP

**WEARABLE TECHNOLOGIES**

**HIGH SPEED BOATS**  
A GUIDE TO PROCURING VESSELS  
AND SYSTEMS ON BOARD



**GENERAL DYNAMICS**  
European Land Systems



Power. Passion. Partnership.

**Airborne Systems**



# High Density For Challenging Applications

ODU AMC®

**F**rom medical technology to consumer electronics to military technology: the trend toward miniaturisation continues. High-density connectors provide the highest possible number of contacts in the most compact space. It gives developers new possibilities and solutions while simultaneously challenging the manufacturer as the connectors' reliability and electrical and mechanical robustness must remain intact in spite of the compact size.

## COMPACT BUT POWERFUL

ODU, the specialist for electrical connector technology, introduced a new, highly-robust miniature connector series at the exhibition Electronica in Munich. "With a diameter of less than 10 mm to 18.5 mm and a contact density of up to 40 contacts, the ODU AMC High-Density series proves that premium quality can also come in small packages," explains Günter Rohr, global portfolio manager, ODU. In addition to the High-Density signal connector, the company's portfolio also includes versions for "power" (up to 15 A) and "data transfer" (USB 3.0 with 5 A power) in the most compact space. The ODU miniature connectors offer an impressively long service life of more than 5,000 mating cycles even under challenging conditions. Blind mating and optimised mechanical and colour coding ensure reliable and simple handling. Thanks to the

Break-Away function, the reliable connection can be released with just a tug on the cable, which makes it possible to change or separate connections in a second.

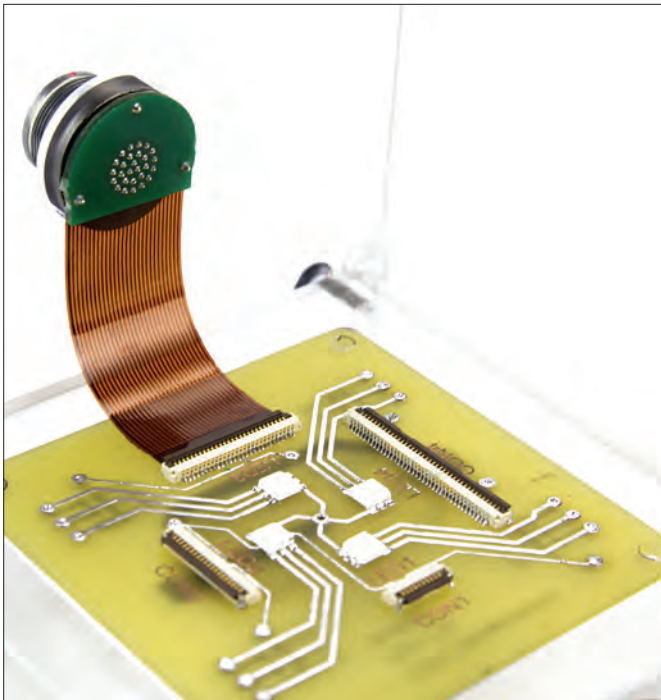
## COMPREHENSIVE MANUFACTURING COMPETENCE FROM ONE SOURCE

Miniaturisation calls for solutions in various areas, from contact technology all the way through to the necessary manufacturing processes. "We consolidate all relevant competencies and key technologies in one company," Rohr points out. The independent, medium-sized company offers more than just connectors in the most compact sizes: it also supplies the matching system solutions. For connectors, this means innovative options for assembly and overmoulding for the cable bend relief, as well as connections to flex and PCB solutions on the device side. Rohr emphasizes the advantages: "This guarantees that our customers have economical and reliable termination technology for the ODU AMC High-Density."

## INDIVIDUAL SOLUTIONS MADE TO MEASURE

The new ODU AMC High-Density products were initially ODU's response to the demand from the military and security technology field in Europe and the United States. In the





second step the company is creating dependable high-density connections in further markets, such as medical technology, sensor systems, and communication technology. Upon

request, ODU experts will also develop miniature connectors to customer specifications-and consequently create “a perfect alliance” around the world.

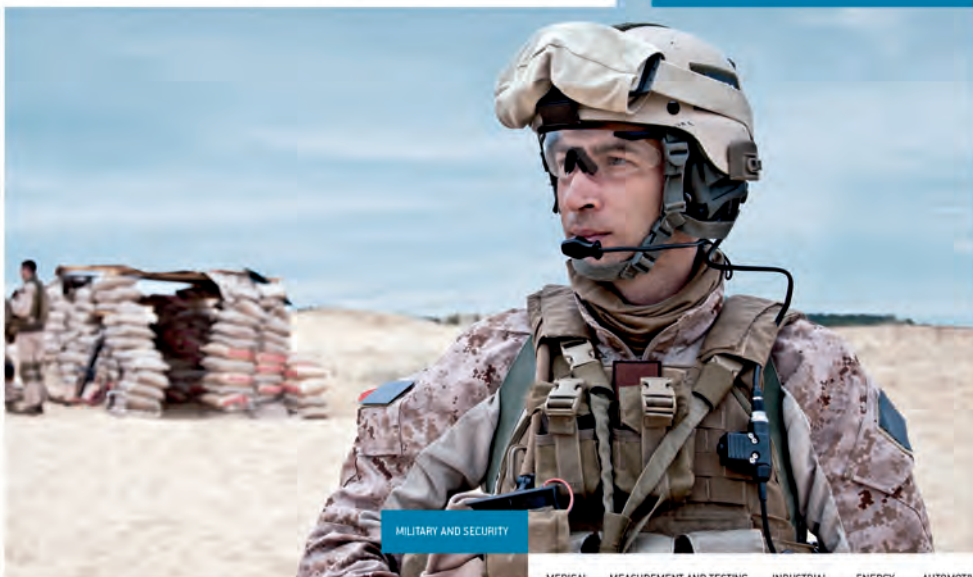
### THE ODU COMPANY GROUP: GLOBAL REPRESENTATION WITH PERFECT CONNECTIONS

ODU is one of the world’s leading connector systems suppliers and employs more than 1,650 people around the world. Aside from its company headquarters at Mühldorf am Inn, the ODU Group also has an international production and distribution network in Europe, North America and Asia. ODU combines all relevant areas of competence and key technologies relating to design and development, machine tool and special machine construction, injection, stamping, turning, surface technology, assembly and cable assembly. The ODU group sells its products around the world and has an international distribution network. This includes seven sales companies in China, Denmark, England, France, Italy, Sweden and the United States, as well as numerous sales partners around the world. Connections from ODU ensure reliable transmission of power, signals, data and media in numerous demanding application areas: in future-oriented growth markets such as medical technology, military and security technology and energy technology, as well as in established sectors such as industrial electronics, measurement and testing technology, and automotive technology. ■

## ODU AMC® HIGH-DENSITY

Innovation in a compact package.

MINIATURE CONNECTORS



### SMALLER – LIGHTER – FASTER

With the AMC High-Density ODU created a highly robust miniature connector series that absolutely fulfils the demands of modern military equipment. The compact and lightweight connectors offer an excellent transmission performance, easy handling and high reliability in the field.

#### FEATURES

- 4 sizes, up to 40 contacts
- More than 5,000 mating cycles
- Break-Away for maximum safety
- Tested according MIL
- Salt spray resistance
- Watertight protection class IP 68
- Blind mating possible
- Mechanical and color coding
- USB 3.0
- Power up to 15A



fig. 1:1

